

ABSTRACT

The present invention provides a system for generating an end of travel feedback to the driver of a vehicle where the vehicle includes a steer by wire system. The system includes a steering wheel, a steering shaft, a motor, and a clutch. The steering wheel is configured to control the steer by wire system. The steering shaft is coupled to the steering wheel and rotates in conjunction with the steering wheel. To provide road feel resistance to the driver, the motor is coupled to the steering shaft. Further, the clutch is configured to mechanically couple the steering shaft to the road wheel to provide mechanical resistance when the road wheel is at an end of travel position.